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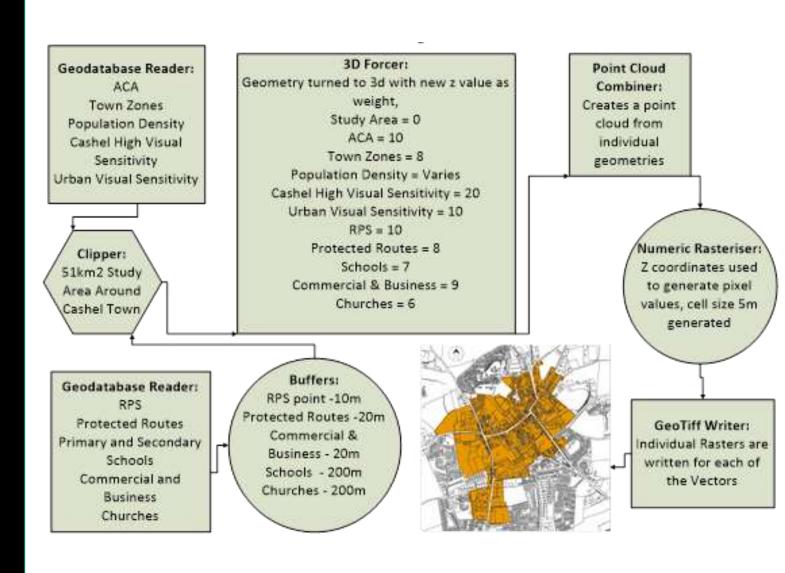






A field GIS solution to derelict sites and dangerous structures management

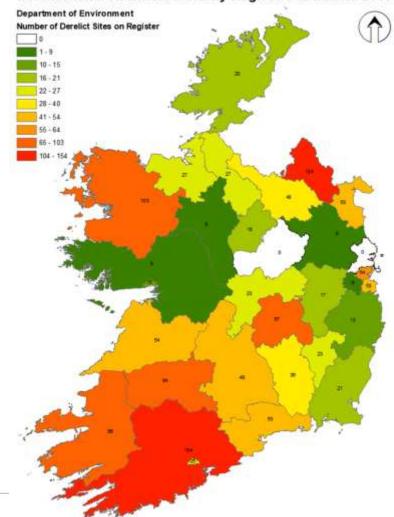
Laurence Lee M.Sc. MSCSI, RICS Tipperary County Council



EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT: **ENHANCING THE GEOSPATIAL MATURITY OF SOCIETIES**

6-11 May 2018, İstanbul

Derelict Sites on Local Authority Registers in Ireland 2015



What is Dereliction?

Potentially Dangerous

- Partially Demolished/Ruinous Buildings
- Missing Slates/Holes in the roof
- · Loose Masonary or falling plaster
- · Bow in the roof structure
- · Structural Cracks
- Broken Windows

Unsightly

- Unsightly boundaries and damaged Hoarding
- · Graffiti
- Rotten Timbers
- Defective or missing gutters and downpipes
- Peeling paint/ Dirty facade
- · Overgrown foliage
- Plants growing in the masonry or roof

Other Indicators

- Accumulation of rubbish or litter
- Illegal dumping
- High Tourist Areas
- · Unsecured site

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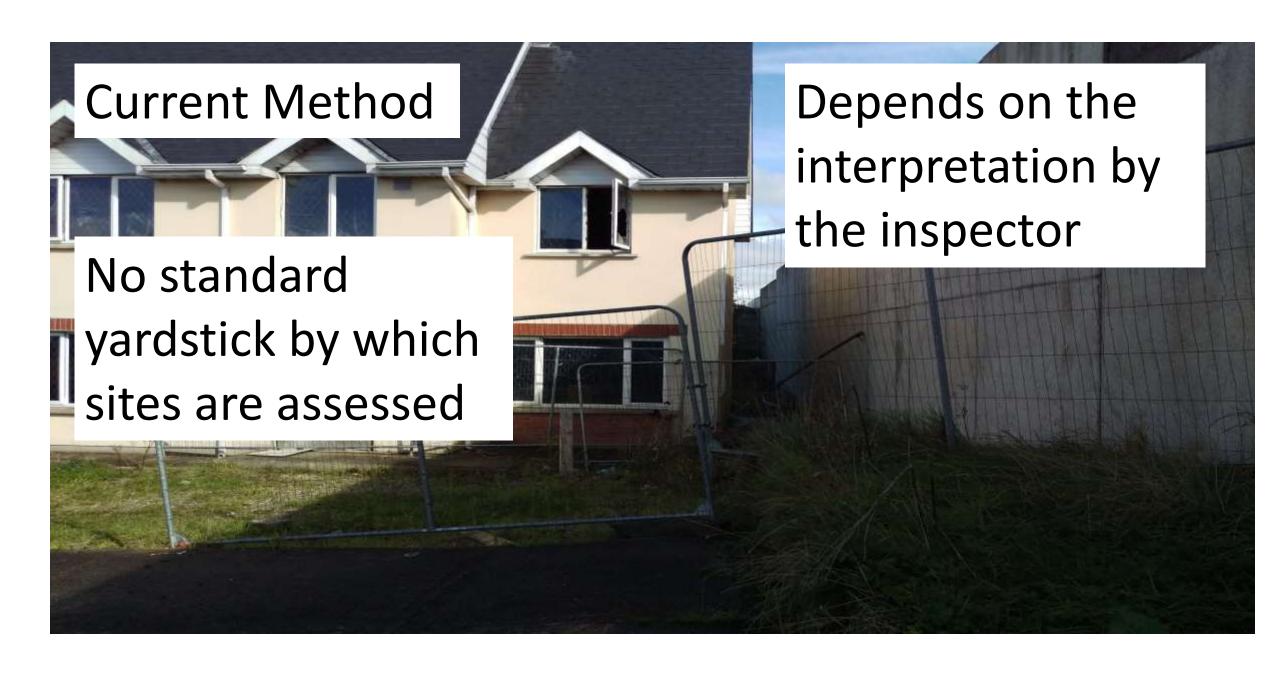










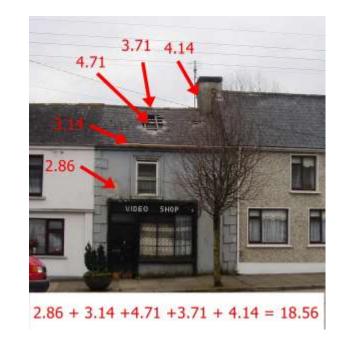


Given the definition how do you rate these two buildings?



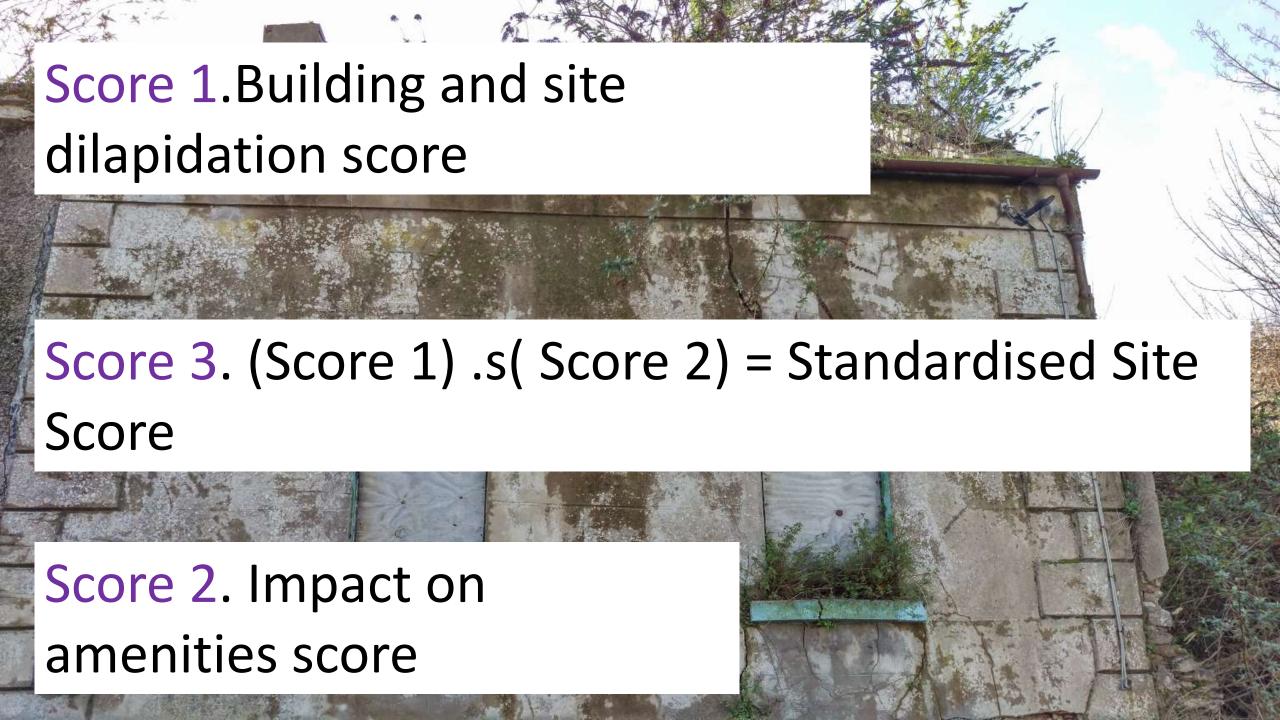


Define dereliction objectively



Standardised site scores against which sites can be prioritised

Site Number	Delipidation score	Impact on amenity	Standardised	Overall Rank	Percentage increase
			site score		of delipdation
			(final score)		adjusting for impact
10	12.05	16.00	14.06	11	16.67%
11	13.31	16.00	15.53	10	16.67%
12	16.26	23.00	20.16	4	23.96%
13	26.52	32.00	35.36	1	33.33%
14	12.05	32.00	16.07	8	33.33%
15	19.31	35.00	26.35	2	36.46%
16	15.21	30.00	19.96	5	31.25%
17	14.02	30.00	18.40	6	31.25%
18	16.10	10.00	17.78	7	10.42%
20	15.42	2.00	15.74	9	2.08%
21	2.58	49.00	3.90	16	51.04%
22	15.62	21.00	20.68	3	22.200/

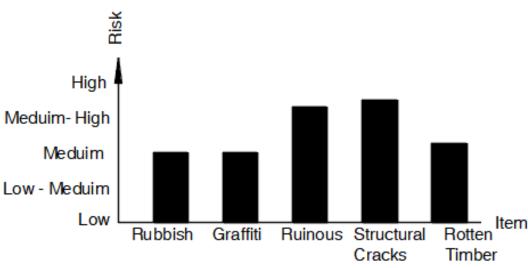


Score 1

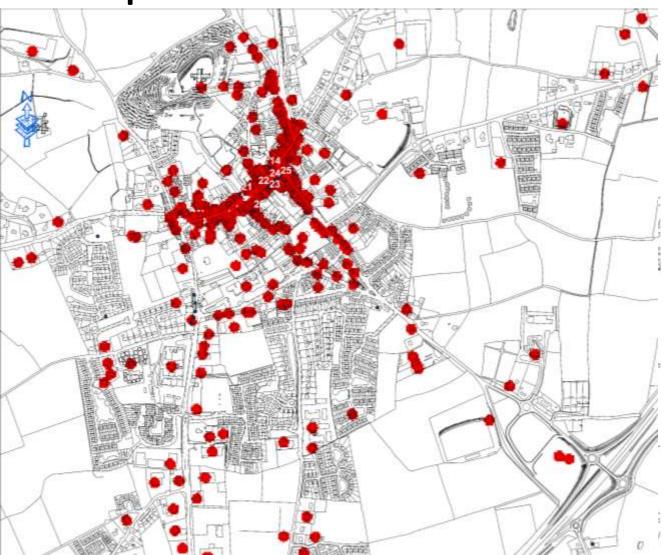


Roof
Chimney
Rainwater goods

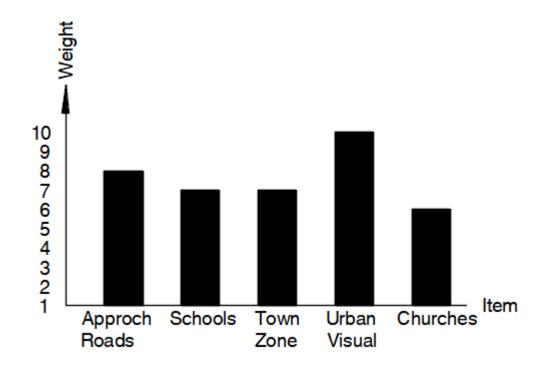
Windows



Score 2 Impact on amenities

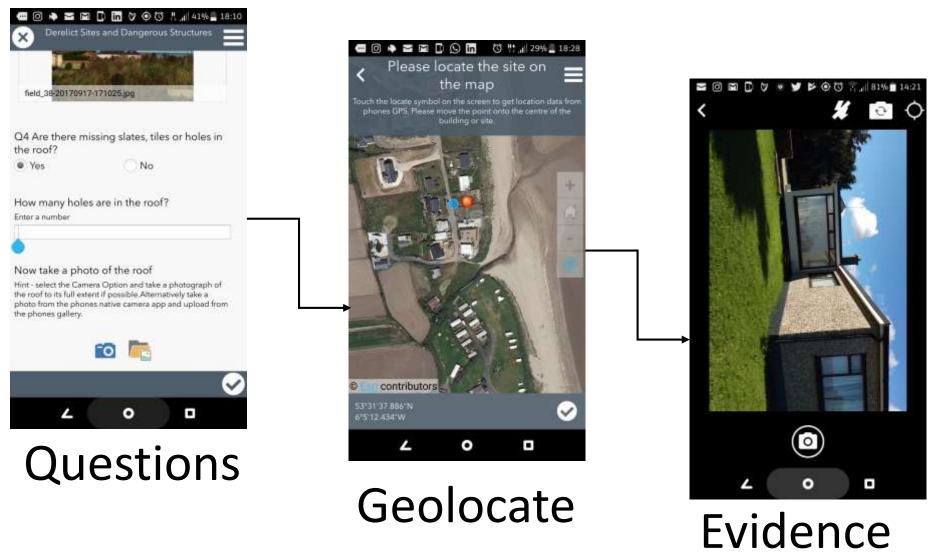


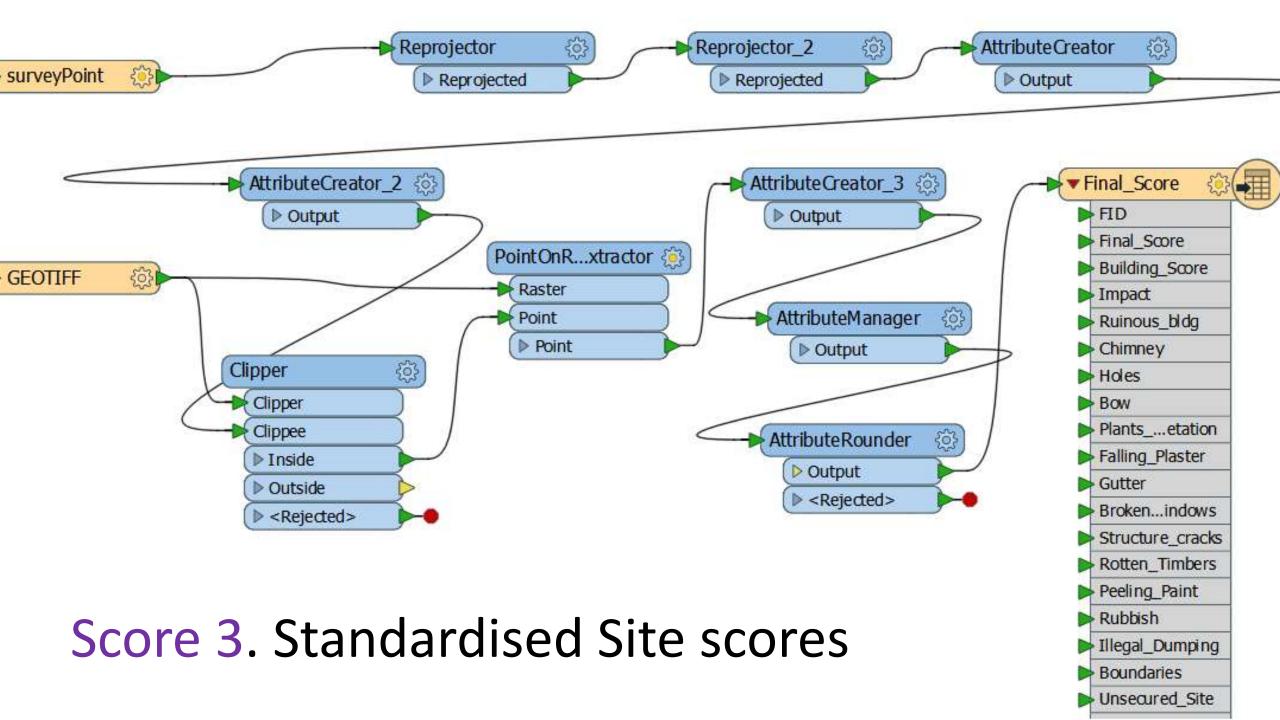
Population
Protected Structures
Architectural
Conservation Areas
Commercial & Business

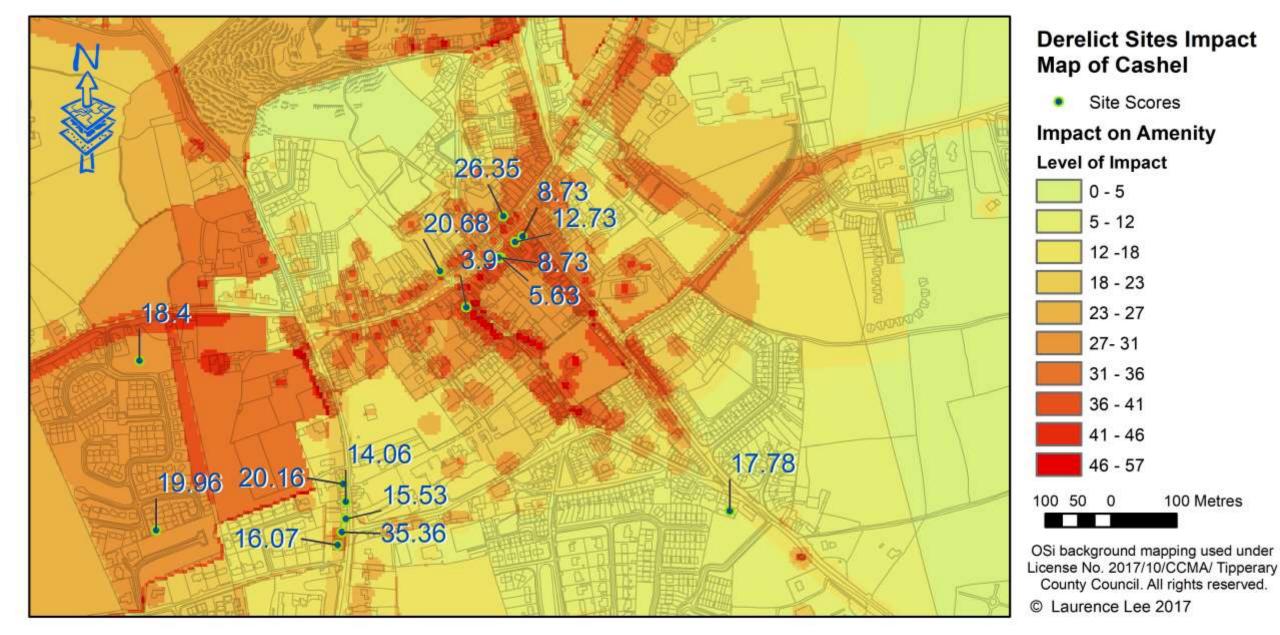




Survey 123







Results:

Building Score = 19.31

Impact on amenity = 35

Standardised site score = 26.35



Results:

Building Score = 15.63

Impact on amenity = 31

Standardised site score = 20.68

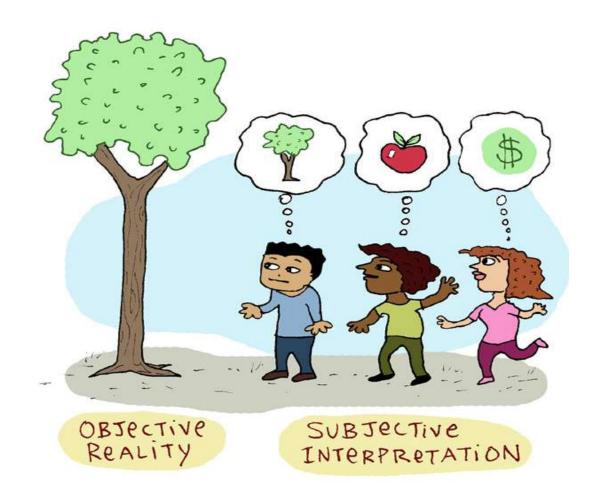


Conclusion

Remove some of the subjectivity - site investigation process

 Standard assessment of sites independent of the opinions of the inspector

 National and International - prioritise resources - remediation on derelict Sites and dangerous structures





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